

BRAKE SYSTEMS FOR AIRCRAFT WING FLAPS AND OTHER CONTROL SURFACES

ABSTRACT OF THE DISCLOSURE

Systems and methods for holding high lift and drag devices and other aircraft control surfaces in position. In one embodiment, a system for moving a trailing edge flap between a retracted position and an extended position includes a drive shaft operably coupled to the flap. The drive shaft moves the flap from the extended position toward the retracted position by rotating in a first direction about a longitudinal axis. The system further includes a brake configured to resist rotation of the drive shaft in the first direction when the control surface is in the extended position. The brake is further configured to resist rotation of the drive shaft in the first direction as the control surface moves from the extended position toward the retracted position.